COE 197 ME08: DOCKER

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1. Running Containers

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PS C:\Users\Jalen> docker images
REPOSITORY   TAG      IMAGE ID      CREATED       SIZE
ubuntu       16.04    9ff95a467e45  4 weeks ago   135MB
PS C:\Users\Jalen> docker pull ubuntu:16.10
Error response from daemon: Head https://registry-1.docker.io/v2/library/ubuntu/manifests/16.10: Get https://auth.docker.io/t
oken?account=brogelio&scope=repository%3Alibrary%2Fubuntu%3Apull&service=registry.docker.io: dial tcp: lookup auth.docker.io
on 192.168.65.5:53: read udp 192.168.65.4:49093->192.168.65.5:53: i/o timeout
PS C:\Users\Jalen> docker run ubuntu:16.04 /bin/echo 'Hello world!'
Hello world!
PS C:\Users\Jalen> docker ps
CONTAINER ID   IMAGE    COMMAND   CREATED    STATUS    PORTS      NAMES
PS C:\Users\Jalen> docker ps -a
CONTAINER ID   IMAGE          COMMAND          CREATED         STATUS              PORTS      NAMES
57fc613fa108   ubuntu:16.04   "/bin/echo 'Hello wo…"   53 seconds ago   Exited (0) 49 seconds ago              condescending_n
apier
PS C:\Users\Jalen> docker run ubuntu:16.04 /bin/bash
PS C:\Users\Jalen> docker run ubuntu:16.04 /bin/bash -it
bash: cannot set terminal process group (-1): Inappropriate ioctl for device
bash: no job control in this shell
root@08d86f3ae821:/# exit
PS C:\Users\Jalen> docker run -it ubuntu:16.04 /bin/bash
root@5689d8c15d83:/# pwd
/
root@5689d8c15d83:/# ls
bin  boot  dev  etc  home  lib  lib64  media  mnt  opt  proc  root  run  sbin  srv  sys  tmp  usr  var
root@5689d8c15d83:/# exit
exit
PS C:\Users\Jalen>
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PS C:\Users\Jalen> docker run -d ubuntu:16.04 /bin/sleep 3600
109c887b1eca0c63060bae3501a752d4c8266e3d67400e3173c1663a63fda707
PS C:\Users\Jalen> docker ps
CONTAINER ID   IMAGE          COMMAND          CREATED         STATUS          PORTS      NAMES
109c887b1eca   ubuntu:16.04   "/bin/sleep 3600"   19 seconds ago   Up 15 seconds              recursing_wright
PS C:\Users\Jalen> docker ps -a
CONTAINER ID   IMAGE          COMMAND          CREATED         STATUS              PORTS      NAMES
109c887b1eca   ubuntu:16.04   "/bin/sleep 3600"   26 seconds ago   Up 23 seconds              recursing_wright
5689d8c15d83   ubuntu:16.04   "/bin/bash"        5 minutes ago    Exited (0) 4 minutes ago   xenodochial_sand
erson
08d86f3ae821   ubuntu:16.04   "/bin/bash -it"    5 minutes ago    Exited (0) 5 minutes ago   peaceful_lewin
064f982b6d15   ubuntu:16.04   "/bin/bash"        5 minutes ago    Exited (0) 5 minutes ago   competent_knuth
57fc613fa108   ubuntu:16.04   "/bin/echo 'Hello wo…"   7 minutes ago    Exited (0) 7 minutes ago   condescending_na
pier
PS C:\Users\Jalen> docker exec -it 109c /bin/bash
root@109c887b1eca:/# ps aux
USER       PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.0   4372   664 ?        Ss   20:58   0:00 /bin/sleep 3600
root         7  0.4  0.0  18236  3268 pts/0    Ss   21:00   0:00 /bin/bash
root        17  0.0  0.0  34420  2856 pts/0    R+   21:00   0:00 ps aux
root@109c887b1eca:/# exit
exit
PS C:\Users\Jalen> docker ps
CONTAINER ID   IMAGE          COMMAND          CREATED         STATUS          PORTS      NAMES
109c887b1eca   ubuntu:16.04   "/bin/sleep 3600"   2 minutes ago    Up 2 minutes              recursing_wright
PS C:\Users\Jalen> docker stop 109c
109c
PS C:\Users\Jalen> docker ps
CONTAINER ID   IMAGE    COMMAND   CREATED    STATUS    PORTS      NAMES
PS C:\Users\Jalen> docker ps -a
CONTAINER ID   IMAGE          COMMAND          CREATED         STATUS              PORTS      NAMES
109c887b1eca   ubuntu:16.04   "/bin/sleep 3600"   3 minutes ago    Exited (137) 23 seconds ago   recursing_wri
ght
5689d8c15d83   ubuntu:16.04   "/bin/bash"        7 minutes ago    Exited (0) 7 minutes ago   xenodochial_s
anderson
08d86f3ae821   ubuntu:16.04   "/bin/bash -it"    8 minutes ago    Exited (0) 8 minutes ago   peaceful_lewi
n
064f982b6d15   ubuntu:16.04   "/bin/bash"        8 minutes ago    Exited (0) 8 minutes ago   competent_knu
th
57fc613fa108   ubuntu:16.04   "/bin/echo 'Hello wo…"   10 minutes ago   Exited (0) 9 minutes ago   condescending
_napier
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PS C:\Users\Jalen> docker rm 109c
109c
PS C:\Users\Jalen> docker ps -a
CONTAINER ID   IMAGE          COMMAND                CREATED          STATUS                     PORTS     NAMES
5689d8c15d83   ubuntu:16.04   "/bin/bash"            9 minutes ago    Exited (0) 8 minutes ago             xenodochial_san
derson
08d86f3ae821   ubuntu:16.04   "/bin/bash -it"        9 minutes ago    Exited (0) 9 minutes ago             peaceful_lewin
064f982b6d15   ubuntu:16.04   "/bin/bash"            9 minutes ago    Exited (0) 9 minutes ago             competent_knuth
57fc613fa108   ubuntu:16.04   "/bin/echo 'Hello wo…" 11 minutes ago   Exited (0) 11 minutes ago            condescending_n
apier
PS C:\Users\Jalen> docker rm $(docker ps -a -q)
5689d8c15d83
08d86f3ae821
064f982b6d15
57fc613fa108
PS C:\Users\Jalen> docker run --rm ubuntu:16.04 /bin/echo 'Hello and goodbye!'
Hello and goodbye!
PS C:\Users\Jalen> docker ps -a
CONTAINER ID   IMAGE      COMMAND     CREATED     STATUS      PORTS      NAMES
PS C:\Users\Jalen>
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